

M 5.5, 60 km SW of San Carlos, Mexico

Origin Time: 2021-07-31 15:39:20 UTC (Sat 08:39:20 local)

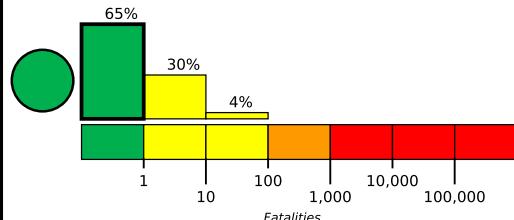
Location: 27.5909° N 111.4970° W Depth: 10.0 km

PAGER
Version 5

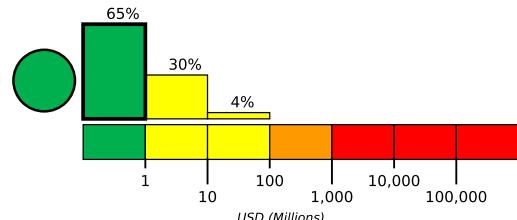
Created: 4 weeks, 0 days after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

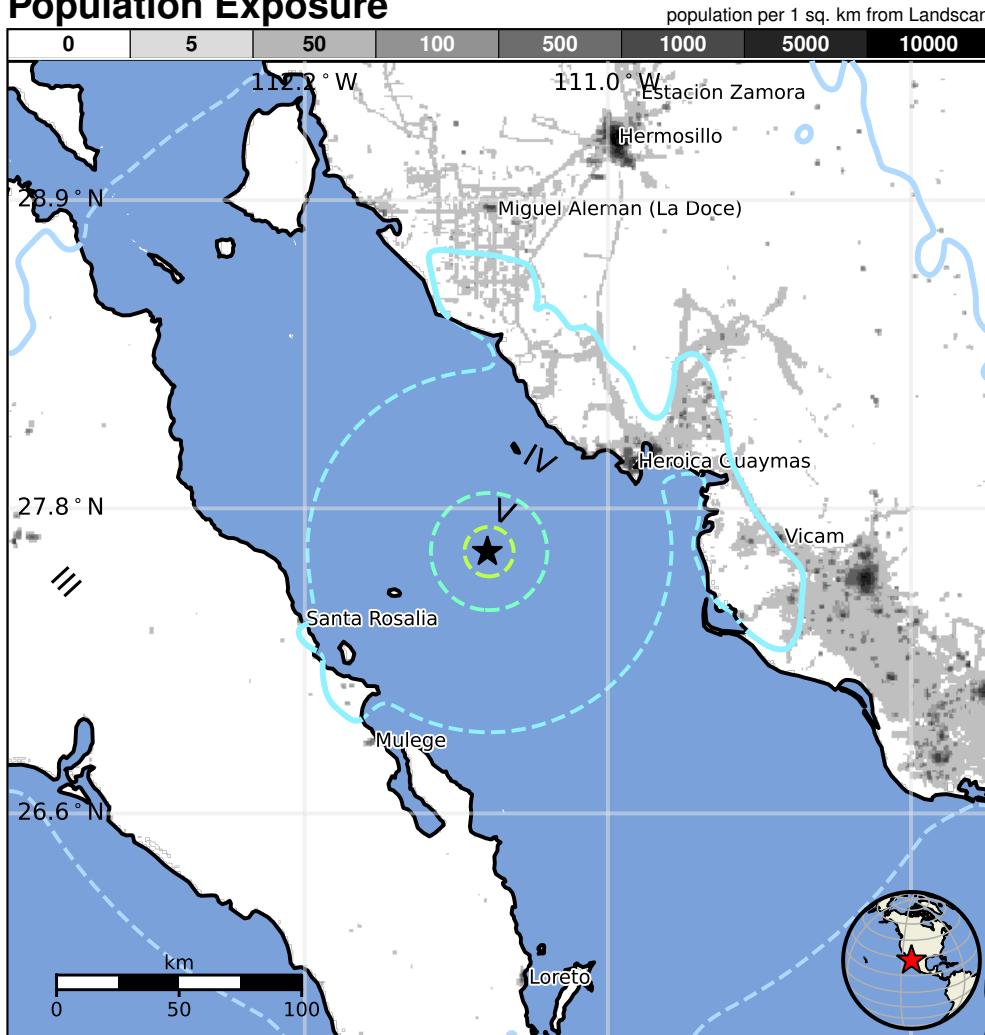


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | -* | 1,871k* | 253k | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|---------|-------|----------|----------|-------------|------------|------------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block with concrete bond beam construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1993-03-05 | 209 | 5.7 | V(4k) | - |
| 1974-05-31 | 45 | 6.4 | VI(60k) | - |
| 1995-06-30 | 363 | 5.7 | VI(170k) | - |

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|-------------------------|------------|
| IV | Empalme | 39k |
| IV | Heroica Guaymas | 103k |
| IV | Potam | 6k |
| IV | Guasimas (De Belem) | 2k |
| IV | La Palma | 1k |
| IV | Bahia de Lobos | 3k |
| III | Miguel Aleman (La Doce) | 31k |
| III | Ciudad Obregon | 258k |
| III | Huatabampo | 30k |
| III | Navojoa | 120k |
| III | Hermosillo | 596k |

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000f109#pager>

bold cities appear on map.

(k=x1000)

Event ID: us6000f109